

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference SI07P001WO	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/EP2004/053321	International filing date (day/month/year) 07/12/2004	(Earliest) Priority Date (day/month/year) 12/12/2003
Applicant SIRENADE PHARMACEUTICALS AG		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☒ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the **drawings** to be published with the abstract is Figure No. _____

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☒ none of the figures is to be published with the abstract.

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International application No.

PCT/EP2004/053321

Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
 - a. type of material
 - ☒ a sequence listing
 - ☐ table(s) related to the sequence listing
 - b. format of material
 - ☒ in written format
 - ☒ in computer readable form
 - c. time of filing/furnishing
 - ☒ contained in the international application as filed
 - ☐ filed together with the international application in computer readable form
 - ☒ furnished subsequently to this Authority for the purpose of search
2. ☒ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

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International Application No
PCT/EP2004/053321

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12Q1/48 G01N33/50

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C12Q G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, BIOSIS, WPI Data, PAJ, EMBASE, CHEM ABS Data, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ✓	US 2003/162222 A1 (MATHES RUTH ET AL) 28 August 2003 (2003-08-28) p.5, paragraph 0080	1-22
X ✓	WO 00/42042 A (UNIV PRINCETON) 20 July 2000 (2000-07-20) page 83, line 23 - page 89, line 2	1-21
X ✓	VIOLETTE SHELIA M ET AL: "A Src SH2 selective binding compound inhibits osteoclast-mediated resorption" CHEMISTRY AND BIOLOGY (LONDON), vol. 7, no. 3, March 2000 (2000-03), pages 225-235, XP002280201 ISSN: 1074-5521 p.228, section "Effect of compounds...transformed cells" to end of this section on p. 229	1-21
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *8* document member of the same patent family

Date of the actual completion of the international search

19 May 2005

Date of mailing of the international search report

06/06/2005

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Authorized officer

Jacques, P

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>HANKE J H ET AL: "DISCOVERY OF A NOVEL, POTENT, AND SRC FAMILY-SELECTIVE TYROSINE KINASE INHIBITOR"</p> <p>JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, BALTIMORE, MD, US,</p> <p>vol. 271, no. 2,</p> <p>12 January 1996 (1996-01-12), pages 695-701, XP002051826</p> <p>ISSN: 0021-9258</p> <p>the whole document</p>	22-27
X	<p>NECKERS LEN: "Hsp90 inhibitors as novel cancer chemotherapeutic agents."</p> <p>TRENDS IN MOLECULAR MEDICINE. ENGLAND 2002,</p> <p>vol. 8, no. 4 Suppl, 2002, pages S55-S61, XP002280254</p> <p>ISSN: 1471-4914</p> <p>p.S58, left-hand column, two first lines. abstract</p>	22-27
X	<p>SAWYER T ET AL: "SRC INHIBITORS: GENOMICS TO THERAPEUTICS"</p> <p>EXPERT OPINION ON INVESTIGATIONAL DRUGS, ASHLEY PUBLICATIONS LTD., LONDON, GB,</p> <p>vol. 10, no. 7, July 2001 (2001-07), pages 1327-1344, XP009003824</p> <p>ISSN: 1354-3784</p> <p>p. 1335, section 5.3 and p. 1338, section 6.figure 7</p>	22-27
X	<p>SUSVA M ET AL: "Src inhibitors: drugs for the treatment of osteoporosis, cancer or both?"</p> <p>TRENDS IN PHARMACOLOGICAL SCIENCES, ELSEVIER TRENDS JOURNAL, CAMBRIDGE, GB,</p> <p>vol. 21, no. 12,</p> <p>1 December 2000 (2000-12-01), pages 489-495, XP004226381</p> <p>ISSN: 0165-6147</p> <p>tables 1,2</p>	22-27
A	<p>YONEDA T ET AL: "HERBIMYCIN A, A PP60C-SRC TYROSINE KINASE INHIBITOR, INHIBITS OSTEOCLASTIC BONE RESORPTION IN VITRO AND HYPERCALCEMIA IN VIVO"</p> <p>JOURNAL OF CLINICAL INVESTIGATION, NEW YORK, NY, US,</p> <p>vol. 91, June 1993 (1993-06), pages 2791-2795, XP000983736</p> <p>ISSN: 0021-9738</p> <p>the whole document</p>	22-27

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Information on patent family members

International Application No

PCT/EP2004/053321

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2003162222	A1	28-08-2003	DE 10024174 A1	29-11-2001
			AT 288081 T	15-02-2005
			AU 6031401 A	26-11-2001
			CA 2409809 A1	15-11-2002
			DE 50105206 D1	03-03-2005
			WO 0188530 A2	22-11-2001
			EP 1282827 A2	12-02-2003
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WO 0042042	A	20-07-2000	AT 248170 T	15-09-2003
			AU 779008 B2	23-12-2004
			AU 2605300 A	01-08-2000
			CA 2369895 A1	20-07-2000
			DE 1140938 T1	09-01-2003
			DE 60004781 D1	02-10-2003
			DE 60004781 T2	08-07-2004
			DK 1140938 T3	22-12-2003
			EP 1140938 A2	10-10-2001
			EP 1321467 A2	25-06-2003
			ES 2206191 T3	16-05-2004
			JP 2002534524 T	15-10-2002
			WO 0042042 A2	20-07-2000
			US 2003073218 A1	17-04-2003
			US 6383790 B1	07-05-2002
			AU 6362000 A	13-02-2001
			CA 2380179 A1	01-02-2001
			EP 1196626 A2	17-04-2002
			JP 2003521890 T	22-07-2003
			WO 0107659 A2	01-02-2001
			US 6610483 B1	26-08-2003
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